

U.S. EPA REGION VIII TECHNICAL ENFORCEMENT PROGRAM RCRA COMPLIANCE EVALUATION INSPECTION REPORT

Facility:

Frontier Refining, Inc. 2700 East 5th Street

Cheyenne, WY 82007

Facility Contact:

Scott Denton

Environmental Engineer

EPA I.D. No.:

WYD051843613

Notification Status: LQG

Inspection Type:

Corrective Action Compliance Inspection

For Pond 2 Clean-Out

Date:

October 31, 2011

Time In:

11:05 a.m.

Time Out:

3:00 p.m.

EPA

Representatives:

Linda Jacobson, EPA Inspector

Margo Smith, EPA Corrective Action

Moye Lin, State Liason

Background:

Frontier Refining, Inc. operates a petroleum refinery in Cheyenne, Wyoming that produces asphalt, fuels, coke, and liquefied petroleum gas. On May 27, 2010, Frontier and EPA entered into a Consent Agreement to address the closure of Pond 2 surface impoundment. This inspection was prearranged and scheduled with facility representatives as a follow-up to observe the progress in waste removal, cleaning, and closure activities for the Pond 2 waste impoundment.

The EPA RCRA representatives, Ms. Jacobson, Ms. Smith, and Ms. Lin, arrived at the facility at 11:05 a.m. and were greeted by Mr. Scott Denton with Frontier's environmental department. Ms. Jacobson presented her credentials, explained the scope of the inspection, and completed the Notice of Inspection (NOI) Form. Entry was gained by consent as noted on the attached NOI form.

Physical Site Inspection

In his office, Mr. Denton provided Ms. Lin an overview of the facility processes and products. The EPA representatives were also given a physical overview of the facility during a drive through the site in the facility truck.

After a lunch break, Mr. Denton drove Ms. Jacobson to the site of the three pads used for storage of removed clay and soils from Pond 2. Two of the pads were empty except for recent precipitation. The snowmelt in the pads was to be removed and treated in the onsite wastewater treatment plant. One of the pads contained approximately 300 cubic yards of contaminated clay scraped from the surface of the clay layer. Mr. Denton stated that the facility planned to collect one composite sample of the clay for analysis for hazardous waste determination.

They then drove to the Pond 2 site where Ms. Jacobson was shown the current status of the Pond 2 closure work. Mr. Denton showed Ms. Jacobson the area where there had formerly been a walkway, submersible pump and concrete sump. The excavation extended below the clay liner in this area, and as Mr. Denton pointed out, the staining below the clay liner appeared to be due to groundwater impacts and was outside the scope of the consent agreement closure activities. The facility plans to install a pump to stop groundwater from flowing into the former Pond 2.

Ms. Jacobson was shown the materials removed from the pond. The oil-contaminated concrete will be sent to a non-hazardous landfill. The soft-top rolloffs contained the Pond 2 synthetic liner and were labeled as "Pond 2 Liner Pending Analysis 10/20/11". There were three hard top roll-offs which were labeled as "Pond 2 Sludge Pending Analysis 10/24/11". These three roll-offs contained the geofabric as well as the stained sand and soils removed from between the synthetic and clay liners.

Ms. Jacobson and Mr. Denton returned to his office and were rejoined by Ms. Smith and Ms. Lin who had stayed behind to review corrective action materials.

Closing Conference:

Ms. Jacobson completed the NOI form and held a short closing conference. No concerns were noted for the scope of the inspection conducted. Photographic documentation was collected and is included as Attachment 2 to this report.

Prepared By:

Linda Jacobson, EPA Inspector

November 172011 Date

Attachments:

Attachment 1: Notice of Inspection Form Attachment 2: Photographs and Photolog

ATTACHMENT 1 NOTICE OF INSPECTION FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY (REGION VIII)

1595 Wynkocp Street, Denver, CO 80202

NOTICE OF INSPECTION

Resource Conservation and Recovery Act (RCRA) Public Law 94-580, as amended. Toxic Substance Control Act (TSCA) Public Law 94-469, as amended. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Public Law 92-516, as amended.										
Date 10 31/11	Inspector #	Daily Seq.	Hour In: 11:05 Out:	ar	acility nam	e rtier	Ref	ini r	ry, LL	C'
Fac. Func.	Invest. Type	Reason	!			00			613 th 54	
Scott	esentative(s) Denter 2 07 77	=	mental	C	PC ity Che	Bo		Stat	i	
Phone # (3 07) 77 1 - 8 73 City State 2 0 0 3 Reason for Inspection:										
Samples, Do	cuments, and /or F	hotos collecte	d (describe be	elow)				Ì	Medium	Date to Lab
1.	27 pho	tos								
2.				•						
3.								.		
4.		20								
5.										
6.					*			1	•	
Samples requested and received by facility: () Yes () No If yes: () Duplicate. () Split. () Photos (To be received when processed.)										
This inspection has revealed the following probably violations of EPA laws or regulations. No violations noted for scope of inspection conducted										
The facts established by this inspection will be reviewed by personnel in the EPA Regional Office. A final determination of your facility's compliance with EPA regulations will be made as a result of this review. The review may reveal additional violations.										
Receipt of th	e Notice of Inspect	ion is acknow	_	<i>O</i> Signatu	re of Lead	lu c	al	ve	<u> </u>	
Signature of	facility representat	ive	Ā	Assistir	ng Inspecto	ors (EPA/	Tribe/Sta	te)		

R8EPA Form 3540-2(8-07)

ATTACHMENT 2 PHOTOLOG AND PHOTOGRAPHS

PHOTOLOG FOR FRONTIER REFINING INSPECTION

РНОТО	SUBJECT	DATE
1	Storage Pad for Clay Removed from Pond 2	October 31, 2011
2	Stained Clay Removed from Pond 2	October 31, 2011
3	Lined Pads Constructed for Storage of Clay and Soils	October 31, 2011
4	Lined Storage Pad for Materials Removed from Pond 2	October 31, 2011
5	Status of Clay Liner	October 31, 2011
6	Clay Liner after Removal of Synthetic Liner	October 31, 2011
7	Exposed Clay Liner and Synthetic Liner Remnants	October 31, 2011
	To Be Left in Place	•
8	Clay Liner in Pond 2	October 31, 2011
9	Location of Former Concrete Outfall	October 31, 2011
10	Pond 2 Status with Synthetic Liner Removed	October 31, 2011
11	Clay Liner with Minute Ponding from Recent	October 31, 2011
	Precipitation	
12	Former Outfall Area	October 31, 2011
13	Clay Liner	October 31, 2011
14	Clay Liner Around Former Walkway	October 31, 2011
15	Clay Liner with Plugged Inlet Pipes	October 31, 2011
16	Status of Pond 2 Work	October 31, 2011
17	Clay Liner Slightly Moist from Recent Precipitation	October 31, 2011
18	Area to Be Further Remediated, Note Groundwater	October 31, 2011
	Intrusion	
19	Staining to Be Further Addressed	October 31, 2011
20	Staining to Be Further Addressed	October 31, 2011
21	Layers of Stained Soil on Side to Be Remediated as	October 31, 2011
	Part of Closure Work	
22	Pond 2 Clay Liner after Stained Clay, Liner and	October 31, 2011
	Geofabric Removal	
23	Area of Pond Requiring Further Remediation	October 31, 2011
24	Materials Removed from Pond 2	October 31, 2011
25	Concrete Removed from Pond 2	October 31, 2011
26	Sealed Roll-Off Containing Pond 2 Wastes	October 31, 2011
27	Roll-Off Containing Pond 2 Wastes	October 31, 2011

Facility: Frontier Refining Subject: Storage Pad for Clay

Removed from Pond 2

Photographer: Linda Jacobson

Date: October 31, 2011



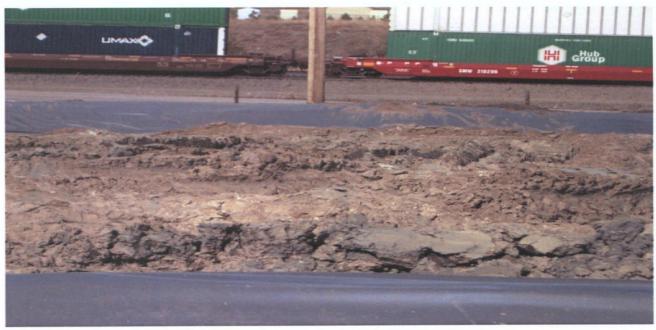
Photo: 2

Facility: Frontier Refining

Subject: Stained Clay Removed

from Pond 2

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Lined Pads Constructed

for Storage of Clay and Soils

Removed from Pond 2

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 4

Facility: Frontier Refining

Subject: Lined Storage Pad for Materials Removed from Pond 2

Photographer: Linda Jacobson



Facility: Frontier Refining Subject: Status of Clay Liner Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 6

Facility: Frontier Refining

Subject: Clay Liner after Removal

of Synthetic Liner

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Exposed Clay Liner and Synthetic Liner Remnants to Be

Left in Place

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 8

Facility: Frontier Refining
Subject: Clay Liner in Pond 2
Photographer: Linda Jacobson



Facility: Frontier Refining Subject: Location of Former

Concrete Outfall

Photographer: Linda Jacobson

Date: October31, 2011



Photo: 10

Facility: Frontier Refining
Subject: Pond 2 Status with
Synthetic Liner Removed

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Clay Liner with Minute Ponding from Recent Precipitation Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 12

Facility: Frontier Refining
Subject: Former Outfall Area
Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Clay Liner

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 14

Facility: Frontier Refining
Subject: Clay Liner Around

Former Walkway

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Clay Liner with Plugged

Inlet Pipes

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 16

Facility: Frontier Refining

Subject: Status of Pond 2 Work Photographer: Linda Jacobson



Facility: Frontier Refining Subject: Clay Liner Slightly Moist from Recent Precipitation Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 18

Facility: Frontier Refining
Subject: Area to Be Further
Remediated, Note Groundwater

Intrusion

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Staining to Be Further

Addressed

Photographer: Linda Jacobson

Date: October 31, 2011





Photo: 20

Facility: Frontier Refining

Subject: Staining to Be Further

Addressed

Photographer: Linda Jacobson

Facility: Frontier Refining Subject: Layers of Stained Soil on Side to Be Remediated as

Part of Closure Work

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 22

Facility: Frontier Refining

Subject: Pond 2 Clay Liner after Stained Clay, Liner and Geofabric

Removal

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Area of Pond Requiring

Further Remediation

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 24

Facility: Frontier Refining

Subject: Materials Removed from

Pond 2

Photographer: Linda Jacobson



Facility: Frontier Refining

Subject: Concrete Removed from

Pond 2

Photographer: Linda Jacobson

Date: October 31, 2011



Photo: 26

Facility: Frontier Refining
Subject: Sealed Roll-off
Containing Pond 2 Wastes

Photographer: Linda Jacobson



Facility: Frontier Refining Subject: Roll-off Containing
Pond 2 Wastes

Photographer: Linda Jacobson Date: October 31, 2011

